

Appendix A. Exact Search Strings

The PubMed[®] search strategies described below were adapted for use in the Cumulative Index to Nursing & Allied Health Literature database (CINAHL[®], search date March 30, 2011) and the Cochrane Database of Systematic Reviews (CDSR, search date March 30, 2011). Results from Searches A and B, described below, were combined to form the full citation set.

PubMed[®] search strategies:

Search A (February 4, 2011):

- 1. "medical home" OR "health-care home" OR "advanced primary care" OR "guided care" OR "patient aligned care team" OR "pcmh[tiab]
- 2. Clinical[tiab] AND trial[tiab]
- 3. clinical trials[MeSH] OR clinical trial[PT] OR random*[tiab] OR random allocation[MeSH] OR "time points" [tiab]
- 4. "time series AND interrupt[tiab]
- 5. pretest[tiab] OR pre-test[tiab] OR posttest[tiab]
- 6. quasi-experiment*[tiab] OR quasiexperiment*[tiab] OR quasirandom*[tiab] OR quasi-random*[tiab] OR quasi-control*[tiab] OR quasicontrol*[tiab]
- 7. cluster[tiab] AND trial[tiab]
- 8. (study[tiab] AND continuing[tiab] OR follow-up[tiab] OR longitudinal[tiab] OR demonstration[tiab] OR intervention[tiab])
- 9. treatment outcome[MeSH] OR multicenter study[PT] OR comparative study[PT] OR clinical trial OR comparative[tiab] OR comparison[tiab] OR matched[tiab] OR "Evaluation Studies as Topic"[MeSH:noexp] OR ""Program Evaluation"[MeSH] OR "Validation Studies as Topic"[MeSH] OR "Multicenter Studies as Topic"[MeSH] OR "Controlled Clinical Trials as Topic"[MeSH:noexp] OR "evaluation studies"[PT]
- 10. #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9
- 11. #1 AND #10

Limits:

Language: English

Not: Editorial, Letter, Practice Guideline

Search B (February 16, 2011):

- 1. "Patient-Centered Care" [MeSH] OR "Delivery of Health Care, Integrated" [MeSH] OR "Patient Care Team" [MeSH:noexp] OR "chronic care model" or "system redesign" OR "systems redesign" OR "disease management" [mh] OR "patient care management" [MeSH:noexp] OR collaboratives
- 2. "Primary Health Care" [Mesh:noexp] OR "family practice" [mesh] OR "internal medicine" [Mesh] OR "physicians, family" [mesh] OR geriatrics [Mesh] OR "primary care" [tiab] OR chronic disease [mh] OR "ambulatory Care" [Mesh] OR "Health Services for the Aged" [Mesh] OR "Community networks" [mesh] OR "pediatrics" [Mesh] OR "Child Health Services" [Mesh] OR "Health Care Coalitions" [Mesh] OR (child*[tiab] AND special[tiab] AND health* [tiab]) OR "diabetes mellitus" [Mesh] OR "diabetes mellitus" [tiab] OR "depressive disorder" [Mesh] OR "major depression" [tiab] OR "heart failure" [Mesh] OR "coronary disease" [Mesh] OR "angina pectoris" [Mesh:noexp] OR hypertension [Mesh] OR hypertension [tiab] OR hyperlipidemias [Mesh] OR hyperlipidemia [tiab]
- 3. clinical[tiab] AND trial[tiab]) OR clinical trials[MeSH] OR clinical trial[PT] OR random*[tiab] OR random allocation[MeSH] OR "time points"[tiab] OR ("time series" AND interrupt[tiab]) OR pretest[tiab] OR pre-test[tiab] OR post-test[tiab] OR posttest[tiab]
- 4. quasi-experiment*[tiab] OR quasiexperiment*[tiab] OR quasirandom*[tiab] OR quasi-control*[tiab] OR quasicontrol*[tiab]
- 5. (cluster[tiab] AND trial[tiab]) OR (study[tiab] AND continuing[tiab] OR follow-up[tiab] OR longitudinal[tiab] OR demonstration[tiab] OR intervention[tiab])
- 6. treatment outcome[Mesh] OR multicenter study[pt] OR comparative study[pt] OR clinical trial OR comparative[tiab] OR comparison[tiab] OR matched[tiab] OR "Evaluation Studies as Topic"[Mesh:noexp] OR "Program Evaluation"[Mesh] OR "Validation Studies as Topic"[Mesh] OR "Multicenter Studies as Topic"[Mesh] OR "Controlled Clinical Trials as Topic"[Mesh:noexp] OR "evaluation studies"[pt]
- 7. #3 OR #4 OR #5 OR #6
- 8. #1 AND #2 AND #7

Limits:

Language: English

Not: Editorial, Letter, Practice Guideline

Not: Citations from Search A

Appendix B. Data Abstraction Elements (KQs 1–3)

Primary Study Citation (Please list the first author, year, and RefID# for primary article of this study)	
Study Objective	
Does this study specifically state that it is an evaluation of PCMH or the Medical Home?	
Yes	
No	
If no, is there a specific conceptual or organizational model that the study claims it is testing? (check	all that
apply)	
Yes – Accountable Care Organization	
Yes – Chronic Care Model	
Yes – Clinical Microsystems	
Yes – Community-based Primary Care	
Yes – Population Health Management	
Yes – Other (please specify):	
None reported	
What is the stated objective of this study (typically the objective from the abstract)?	
Design Detail (click one) RCT - Patient-level randomization RCT - Cluster (e.g. study location/clinic) randomization Non-randomized Controlled Trial Prospective Cohort/Observational Study - Defined by patient groups Prospective Cohort/Observational Study - Study location/clinic Retrospective Cohort/Observational Study - Defined by patient groups Retrospective Cohort/Observational Study - Study location/clinic	
Interrupted Time series	
Intervention and Control Groups, Pre-Post design	
Other (specify):	
Study Sponsor	
What type of organization funded the study? (pick the primary funder from acknowledgements)	
None reported	
Federal (US) – National Institutes of Health	
Federal (US) – Agency for Healthcare Research and Quality	
Federal (US) – Centers for Medicare and Medicaid Services (CMS)	
Federal (US) – Indian Health Services	
Federal (US) – Other Health and Human Services Agency	

	Federal (US) – Department of Veterans Affairs
	Federal (US) – Department of Defense
	State Government (can include State Medicaid program)
-	Foundation (specify)
	Professional Society (specify) Stoff on Crown Model health maintanance arganization (HMO)
	Staff or Group Model health maintenance organization (HMO) International government-operated health system (not US)
	International government-operated health system (not US) Other (specify)
Study S	etting – Country
	country was this study conducted? (check all that apply)
	United States Other (specify country)
-	Other (specify country)
Study S	etting – Organization Intervention Site
	type of organization(s) was/were the PCMH intervention done? (check all that apply)
	Not reported Federal (US) Department of Veterana Affairs
	Federal (US) – Department of Veterans Affairs Federal (US) – Department of Defense
	Federal (US) – Department of Defense Federal (US) – Indian Health Service
	State Government
	State Government Federally Qualified Health Center
	Staff or Group Model health maintenance organization (HMO) (specify)
	Other insurance organization (specify, including who owns)
-	Integrated delivery system (includes hospital and outpatient services) (specify, including who owns
-	Stand-alone primary care provider (specify, including who owns)
	Government-operated health system outside US (specify, including who owns) Other (specify)
-	Other (specify)
Comme	nts:
Study S	etting – Number of Study Locations
How ma	any intervention locations were included in the study (e.g. how many intervention clinics)?
How me	any control locations were included in the study (e.g. how many control clinics)?
Study P	opulation
Overall	population category (pick most appropriate level) Adults

Children (<= 18 yea Mixed	rs)		
How many intervention groups	(e.g. intervention ar	ms of a clinical trial)?	
Overall Description (label) for i usual care)	ntervention and con	trol arms (e.g. interver	ntion + PCMH implemented; control =
a. Intervention arm 1:			
b. Intervention arm 2:			
c. Intervention arm 3:			
d. Control arm:			
Patient enrolled (if variable numeasure)	aber of patients per	outcome, record the la	rgest number for any baseline
a Total Patient n=			

a. Total Patient n=	
b. Intervention arm	1 n=
c. Intervention arm	2 n=
d. Intervention arm	3 n=
e. Control arm n=	

Enrollee characteristics (PATIENTS] (only abstract total enrolled if that is available; otherwise, abstract arms separately)

Characteristic:	Total Enrolled	Arm 1	Arm 2	Arm 3	Control arm
	(preferred	N =	N =	N =	N =
	data)				
a Maan Ass	N =				
a. Mean Age					
(SD)					
b. Sex – Men (n)					
c. Sex – Women					
d Dage White					
d. Race – White					
(n)					
e. Race –					
African					
American (n)					
f. Race – Latino					
(n)					
g. Race – Asian					
(n)					
h-1. Mean					
education (SD) OD					
(years) (SD) OR					
h-2. >High					
School					
education (n)					
i. Disease					
Burden (e.g. risk					
score) specify:					

					1	
j-1. Top 3						
Diseases - #1						
specify						
j-2. Top 3						
Diseases - #2						
specify						
j-3/ Top 3						
Diseases - #3						
specify						
Comments (related	d to baseline descrip	otors):				
Staff Studied						
No	Are staff outcomes (e.g. staff burn-out, etc.) reported? No Yes					
If staff outcomes v	were included, pleas	se indicate the num	ber of staff include	d in each category	(n)	
Total n=						
	vider (i.e. physician	nurse				
	or physician assistan					
	y level of licensed r	iurse not acting				
as a primary care provider) n=						
Other (specify pro	tession) n=					
Comments:						

INTERVENTION – Specific PCMH Components

What specific PCMH components have been included regarding the Primary Care Team ?	
$\underline{\hspace{1cm}}$ no team (defined as \geq = 2 people)	
team, but no details given	
team, details given	
If team (details given) then check all that apply to the team composition	
Physician	
NP/PA	
Nurse (RN and/or LPN)	
Clinical Pharmacist	
Social Worker	
Psychologist	
Other (specify)	
Other team details (check all that apply)	
Defined roles for team members (paper does not need to describe each role for this item checked)	to be
 Dedicated time for one or more members of the care team to address expanded PCMH at a Learn member is designated as the patient's primary contact (if reported, please indicated) 	
discipline) specify MD/PA/NP; RN/LPN; Other	
Regular meetings of team or other mechanism to discuss/communicate about patient care	3
Team located in the SAME physical location	
Team located in DIFFERENT physical locations (e.g. telemedicine, care manager coverimultiple practices)	ng
Other key aspects (specify):	
Were specific PCMH components regarding Enhanced Access included?	
Yes	
No	
If yes, check all that apply:	
There is "enhanced access" but no details reported	
Telephone visits (a telephonic contact by a health care provider to address clinical issue telephone disease management)	s or
Group visits to address a clinical problem (not one or limited-time classes) or shared med appointments (group visit that includes medication management)	dical
Home visits by a team member	
Web-based visits or web-based disease management	
Telephone disease management or home tele-monitoring of disease condition (e.g. home monitoring, scales for CHF patients that transmit data to the primary care provid	
Two-way e-mail or other mode of electronic messaging to address a clinical issue (e.g. se messaging)	cure
Enhanced telephone system (e.g. system for directing calls to specific care team, adding telephone lines, adding system for returning messages)	
Expanded office hours	
Advanced clinic access, open access scheduling, or changes to appointment types or ava	•
24/7 coverage (e.g. nurse call line or other system where a patient can talk directly to a c	linician

Were specific PCMH components regarding Coordinated Care included?	
If yes, check all that apply	
There is "coordinated care," but no details reported	
Integrated mental-health services (mental health professional is co-located or care management	nt
services for mental illness)	110
Clinical pharmacist provides medication counseling or other direct care patient services (e/t/	
chronic disease management)	
Community liaison/enhance system for referral to community resources (system to refer patie	nto
to services such as food banks, social services, public health dept.)	ins
Pre-visit planning (e.g. review appointment schedules or charts to plan how to meet patient ne	anda
	cus
during visits)	
Coordinates home health services	
Coordination of care transitions (e.g. hospital to outpatient care)	
Test tracking (system to confirm that diagnostic test results have been reviewed and proper	
follow-up occurred)	
Referral Tracking or f/u by PCMH team (e.g. a system to track referral status and reports from	n
consultants to ensure proper services are received)	
Other (specify)	
Were specific PCMH components regarding Comprehensiveness included? If yes, check all that apply	
All or most CHRONIC care included	
All or most ACUTE care included	
All or most CHRNOIC ILLNESS and/or PREVENTIVE care included	
All or most SPECIALTY care included	
Other (specify services)	
Were specific PCMH components regarding a system-based approach to improving quality and safety included?	
If yes, check all that apply	
There is "system-based approach to improving quality and safety," but no details reported	
Reduced provider/team panel size	
Longer appointment times	
Orientation to the practice (e.g. Medical Home structure/service)	
Evidence-based practice guidelines	
Electronic health records	
Electronic prescribing	
Patient registries or tracking of preventive or chronic illness services (lists of patients, sortable	e hv
conditions and/or interventions) and or tracking of preventive or chronic illness service	ces
Mechanism for identifying high-risk patients (e.g. health risk appraisal, patients with markers poor disease control, claims data predictive index)	OI
Point-of-care decision support (e.g. preventive care reminders or guideline based clinical reminders)	
Performance monitoring for quality of care (e.g. performance indicators on process of care,	
D (

___ Other (specify)_____

patient experience, patient outcomes)
Other (specify)
Were specific PCMH components regarding a Sustained Partnership (with 'Whole Person' focus) uncluded
If yes, check all that apply
Sustained partnership, but no details reported
Designated MD/PA/NP primary care provider
Care plans used (care plans developed with patients)
Shared decision making (decision aids introduced or staff training on shared decision making)
Comprehensive patient health assessments
Self-management support (e.g. written self-management plan, self-management tolls [written/web], staff training on self-management; specific self-management program)
Programs for family/caregiver support (e.g. family education or psychoeducation; caregiver training)
Other (specify)
Were specific PCMH components regarding structural changes to care included?
If yes, check all that apply
There were 'structural changes to care,' but no details reported
New staff
New services or programs (e.g. group visits, telephone disease management)
New locations of care
New organizational entities (e.g. formation of an Accountable Care Organization)
New organizational affiliations (e.g. new service agreement between a physician practice ground and hospital)
New staff roles (may overlap with team)
New electronic health record
New payment model
Other (specify)
Financial Models Introduced as Part of PCMH
What specific models were used as part of the PCMH implementation? (check all that apply
No change or nothing reported on financial models
Bundled payments for most health services (i.e. similar to capitation not specifically related to
PCMH support)
Pay for Performance (i.e. payment based on meeting pre-specified quality targets)
Enhanced Fee for service (e.g. additional payments for participating in PCMH)
Accountable Care Organization (or other interorganizational agreement with shared financial risk)
Revised pharmacy benefits
Other (specify)
Organization Learning Strategies
What mechanisms did the organization use for learning about PCMH and the related components? (check all that apply)
Learning strategies not reported

	Designated research/project team assistance
	Collaborative program planning involving the clinic staff
	Participated in a formal learning collaborative
	Community of practice (e.g. group of professionals seeking to improve care supported by pone calls, web site, etc.)
	Implementation toolkits (i.e. availability of a set of tools to help organizations implement new programs, can include things like instructions on how to develop PCMH structures,
	conduct rapid cycle improvement, map current care systems) Other (specify)
System C	hange Strategies
What stra	tegies were used to actually implement the changes needed for PCMH? (check all that apply)
	Strategies not reported
	Plan-Do-Study-Act Cycles (also sometimes called Plan-Do-Check-Act cycles)
	Academic detailing
	Lectures/classes for staff (i.e. didactic education)
	Flow mapping of care system
	Total quality management (TQM)/Continuous Quality Improvement (CQI)
	Audit and feedback to providers, teams, and/or clinics
	Strengths-Weakness-Opportunities-Threats Analysis
	External benchmarking at the organizational level (comparing one's organizational
	quality/performance to that of other organization or an industry standard)
	Designated clinical champion (facility/practice level)
	Designated project manager (facility/practice level)
	Quality Improvement Team
	Other (specify)
COMPA	RATOR
Dlagga ah	ack the type of comperator against which DCMU was compared
Piease cii	eck the type of comparator against which PCMH was compared.
	Usual care – no changes Changed system other than PCMH (specify basic changes)
	Changed system other than PCMH (specify basic changes) Non-Facilitated PCMH Implementation (as opposed to facilitated PCMH implementation)
	(specify basic aspects of any "non-facilitation") KQ2/3 = "no comparator necessary"
	KQ2/3 — no comparator necessary
Please inc	licate reported aspects of the comparator (e.g. usual care) (check all that apply)
	Aspects not reported
	Electronic Health Record
	Teams (mentioned in any way)
	Designated primary care providers
	Clinical practice guidelines
	Disease management programs for specific diseases
	Group visits
	Telephone care
	Programs for families/caregivers
	Quality Improvement programs (any mentioned)
	Quality measurement
	Access enhancement programs (e.g. open access)

Other (specify)	
Comments:	

Is this study relevant to Key Question 1?

KQ1: In published, primary care-based evaluations of comprehensive PCMH interventions, what are the effects of the PCMH on patient and staff experiences, process of care, clinical outcomes, and economic outcomes?

- a. Are specific PCMH components associated with greater effects on patient and staff experiences, process of care, clinical outcomes, and economic outcomes?
- b. Is implementation of comprehensive PCMH associated with unintended consequences (e.g. decrease in levels of indicated care for non-priority conditions) or other harms?

 Ye
No

If yes, please complete the following Outcomes Table:

Type of Outcome:	Name of Outcome:	How Was Outcome Measure Reported:	Timepoint (s):	Comments
a. Patient/Facility,				
Staff, N/A				
b. Patient/Facility,				
Staff, N/A				
c. Patient/Facility,				
Staff, N/A				
d. Patient/Facility,				
Staff, N/A				
e. Patient/Facility,				
Staff, N/A				
f. Patient/Facility,				
Staff, N/A				
g. Patient/Facility,				
Staff, N/A				
h. Patient/Facility,				
Staff, N/A				
i. Patient/Facility,				
Staff, N/A				
j. Patient/Facility,				
Staff, N/A				
k. Patient/Facility,				
Staff, N/A				
l. Patient/Facility,				

Staff, N/A		
m. Patient/Facility,		
Staff, N/A		
n. Patient/Facility,		
Staff, N/A		
o. Patient/Facility,		
Staff, N/A		
p. Patient/Facility,		
Staff, N/A		
q. Patient/Facility,		
Staff, N/A		
r. Patient/Facility,		
Staff, N/A		
s. Patient/Facility,		
Staff, N/A		
t. Patient/Facility,	 	
Staff, N/A		

Appendix C. Data Abstraction Elements (KQ 4)

Distille	er Reference ID: _		
Search	Source (choose or	ne)·	
Dearen	enGrant	10).	
	Commonwea	lth	
	PCPCC	1011	
	RWJ		
	ClinicalTrials	S GOV	
	CMS	s.gov	
	NASHP		
	Medline/PubN	Mad	
	Other (specif		
	Other (specif	y)	
Clinica	alTrials.gov identif	ier (or unique grant	#):
Study '	Title:		
Princip	oal Investigator/Co	ntact:	
End/Co	ompletion date (mi	m/yyyy):	
Funder	(use data provide	d on ClinicalTrials.g	gov form):
Health		ganization (check all	l that apply):
	Not Reported		
		 Department of Ve 	
	, ,	 Department of De 	
	, ,	 Indian Health Ser 	rvice
	State governr		
	_	ified Health Center	
	Staff or Grou	p Model health main	ntenance organization (HMO) (specify):
	Other insurar	ace organization (spe	ecify, including who owns):
	Integrated de	livery system (inclu	ides hospital and outpatient services) (specify, including who
	owns):		
	Stand-alone p	orimary care provide	er (specify, including who owns):
	Government-	operated health syst	tem outside US (specify, including who owns):
	Other (specif	y):	
Geogra	aphic Location(s):		
Geogra	• '	specify):	
	Multi-state	specify)	
	Wiuiti-state		
Study	Size (enter n or NF	i e e e e e e e e e e e e e e e e e e e	7
	Data Element	Total	
	Patients:		
	Clinics:		
	Providers:		

Study Design:	
RCT – Patient-level randomization	1
RCT – Cluster (e.g. study location)	
Non-randomized controlled trial	,
Prospective cohort/observational st	tudy – defined by patient groups
Prospective cohort/observational st	•
Retrospective cohort/observational	
Retrospective cohort/observational	• • • • • • • • • • • • • • • • • • • •
Interrupted time series	
Intervention and control groups, Pr	re-Post design
Other longitudinal comparative stu	
	(specify).
Detailed PCMH components reported (answer	yes/no to each):
Team-based care:	Yes/No/NR
Enhanced access to care:	Yes/No/NR
Coordinated care:	Yes/No/NR
Comprehensive care:	Yes/No/NR
Systems-based QI:	Yes/No/NR
Sustained partnership/personal physician:	Yes/No/NR
Reorganization of care delivery:	Yes/No/NR
Reorganization of eare delivery.	I CS/11O/11IX
Comments:	
PCMH Financial/Reimbursement Model Repo No change or nothing reported on a Bundled payments for most health PCMH support)	
PCMH per member (typically per	month) payment for PCMH/care management activities t based on meeting pre-specified quality targets ditional payments for participating in PCMH) r other inter-organizational agreement with shared financial risk)
Outcomes assessed (check all that apply): Patient or Staff experiences/satisfa Process of Care – access Process of Care – quality	ction

___ Clinical outcomes ___ Economic outcomes

Appendix D. Quality (Risk of Bias) Assessment of Individual Studies (KQ 1)

Was this study randomized?
yes
no
If yes, then the following appear (Randomized questions):
Were the study subjects randomized?
yes
no
unclear
Was the randomization process described?
yes
no
unclear
Was the outcome assessor blinded to study assignment?
yes
no
unclear
Were patients blinded to study intervention?
yes
no
unclear
Were results adjusted for clustering?
yes
no
unclear
Were measures of outcomes based on validated procedures or instruments?
yes
no
unclear
Conducted an intent to treat analysis?
yes
no
unclear

Were all outcomes reported (i.e. was there evidence of selective outcome reporting?)
yes
no
unclear
Were incomplete data adequately addressed (i.e. no systematic differences between groups in withdrawals/loss to follow-up AND no high drop-out or loss to follow-up rate [>30%])? yes
no
unclear
Was there adequate power (either based on pre-study or post-hoc power calculations [80% power for primary outcome])?
yes
no
unclear
Were systematic differences observed in baseline characteristics and prognostic factors across the groups compared?
yes
no
unclear
Were comparable groups maintained? (includes cossovers, adherence, and contamination. Consider issues of crossover [e.g. from one intervention to another], adherence [major differences in adherence to the interventions being compared], contamination {e.g. some members of control group get intervention], or other systematic difference in care that was provided.)
yes
no
unclear
Was there absence of potential important conflict-of-interest? (Focus on financial conflicts with for-profit capacities; government or non-profit funding = 'yes')
yes
no
unclear

Overall Study Rating:

Please assign each study an overall quality rating of "Good," "Fair," or "Poor" based on the following definitions:

A "Good" study has the least bias, and results are considered valid. A good study has a clear description of the population, setting, interventions, and comparison groups,; uses a valid approach to allocate patients to alternative treatments; has a low dropout

rate; and uses appropriate means to prevent bias, measure outcomes, and analyze and report results.

- A "Fair" study is susceptible to some bias but probably not enough to invalidate the results. The study may be missing information, making it difficult to assess limitations and potential problems. As the fair-quality category is broad, studies with this rating vary in their strengths and weaknesses. The results of some fair-quality studies are possibly valid, while others are probably valid.
- A "Poor" rating indicates significant bias that may invalidate the results. These studies have serious errors in design, analysis, or reporting; have large amounts if missing information; or have discrepancies in reporting. The results of a poor-quality study are at least as likely to reflect flaws in the study design as to indicate true differences between the compared interventions.

The Overall Quality Assessment of this RCT is:	
Good	
Fair	
Poor	

If no, then the following appear (Observational questions):

This tool is intended to evaluate the quality of studies examining the outcomes of PCMH interventions. Use this risk of bias tool for the following study designs: non-randomized controlled trials, cohort studies, interrupted time series.

Instructions for use:

- 1. Items are organized by risk of bias domains (selection, performance, attrition, detection and reporting bias). Rate each question using the response categories listed. Focus on study design and conduct, not quality of reporting.
- 2. Two questions: basic study design, sample size/power are not used in overall ratings but are collected for descriptive purposes.
- 3. After answering each item, rate the study overall as "low risk of bias," "moderate risk of bias," or "high risk of bias" based on the definitions printed in a later section.

Study Design

Is the study design prospective, retrospective, or mixed?	(Prospective design requires that the
investigator plans a study before any data are collected.	Mixed design includes case-control or
cohort studies in which one group is studies prospective	ly and the other retrospectively.)

 Prospective
Retrospective
Mixed
Cannot determine

Selection Bias

Inclusion/Exclusion Criteria

Are the inclusion/exclusion criteria clearly stated (does not require the reader to infer)? (Key
eligibility criteria are: age, medical conditions for patients, specialty if selected by physician,
payment structure/vertical integration if selected by clinic.)
Use 'partially' if only some criteria are stated or if some criteria are not clearly stated.

Use 'partially' if only some criteria are stated or if some criteria are not clearly stated.
yes partially (only some criteria stated or some criteria not stated clearly)
no
Did the study apply inclusion/exclusion criteria uniformly to all comparison groups?
yes
partially (only some criteria stated or some criteria not clearly stated)
no
N/A (study does not include comparison groups)
Recruitment
Did the strategy for recruiting participants into the study differ across study groups? (Also applies if physicians/clinic recruited.)
yes
no
cannot determine
N/A (retrospective study design)
Baseline characteristics similar or appropriate adjusted analysis
Are key characteristics of study participants similar between intervention and control groups?
(Patients' age, race, gender, illness severity)
If not similar, did the analysis appropriately adjust for important differences?
yes (similar or appropriate adjusted analysis)
partially (only some characteristics described or some characteristics not clearly
described; analysis
adjust for some) no (important baseline differences; unadjusted analysis)
no (important baseline differences, unadjusted analysis)
Comparison Group
Is the selection of the comparison group appropriate? (Patients exposed to usual care or enhanced usual care is appropriate; if comparison group determined at the physician or practic
level, the comparison groups should be drawn from the same system.) yes
no
cannot determine (no description of the derivation of the comparison cohort)

N/A (study does not include a comparison cohort – case series, one-arm study)
Performance Bias
Intervention Implementation
Did variation from the study protocol compromise the conclusions of the study? (Similar to a psychologist following a manualized procedure to deliver psychotherapy, the PCMH intervention should be implemented as planned.) unclear (no data reported on fidelity to protocol or PCMH components used) low fidelity (few components of PCMH implemented) medium fidelity (most key components of PCMH implemented) high fidelity (all key components of PCMH were implemented)
Did researchers rule out any impact from concurrent interventions? (Such as other quality improvement initiatives, changes in payment structure – e.g. through multivariate analysis, stratification, or subgroup analysis?) yes partially (only some concurrent interventions eliminated)
not described
Attrition Bias
Equality of length of follow-up for participants
In cohort studies, is the length of follow-up different between the groups? (Where follow-up was the same for all study patients the answer is 'yes.' If different lengths of follow-up were adjusted by statistical techniques, for example, survival analysis, the answer is 'yes.' Studies where difference in follow-up are ignored should be answered 'no.') yes no cannot determine
Completeness of Follow-up
Was there a high rate of differential or overall attrition? (Attrition is measured in relation to the time between baseline [allocation in some instances] and outcome measurement. Standard for overall attrition is $<20\%$ for <1 year f/u and $<30\%$ for longer term ≥ 1 year. Standard for differential attrition is $\ge 10\%$ absolute difference.) yes
no cannot determine
Attrition affecting participant composition

Did attrition result in a difference in group characteristics between baseline and followup?

yes
no
cannot determine
Any attempt to balance the allocation between the groups? (e.g. through stratification, matching, propensity scores)
yes no
cannot determine
camot determine
Intention-to-treat analysis
Is the analysis conducted on an intention-to-treat (ITT) basis. i.e., the intervention allocation status rather than the actual intervention received? (Evaluate whether the analysis takes into account loss to follow-up.)
yes
no
cannot determine
N/A (retrospective study)
Detection Bias
Blind outcomes assessment
Were the outcomes assessors blinded to the intervention or exposure status of participants?
yes
no
N/A (not an intervention study)
1V/X (not an intervention study)
Are interventions/exposures assessed using valid and reliable measures, implemented consistently across all study participants?
yes
no cannot determine (measurement approach not reported)
Source of information re: outcomes
Are <u>process of care outcomes</u> (e.g. performance measures, access metrics) assessed using valid and reliable measures and implemented consistently across all study participants? yes
no cannot determine (measurement approach not reported
Are <u>clinical outcomes</u> (e.g. symptoms, change in biophysical indicator of disease state) assessed using valid and reliable measures and implemented consistently across all study participants? yes

no cannot determine (measurement approach not reported)
Are <u>economic outcomes</u> (e.g. utilizations, costs) assessed using valid and reliable measures an implemented consistently across all study participants?
yes
no
cannot determine (measurement approach not reported)
Are confounding variables asses using valid and reliable measures, implemented consistently across all study participants? (Major potential confounders include: age, gender, race, disease severity, overall burden of disease.)
yes
no cannot determine (measurement approach not reported)
Reporting Bias
Primary Outcomes Assessment
Are findings for all primary outcomes reported? (Abstractor needs to identify all pre-specified, primary outcomes that should be reported in the study.)
yes partially (some outcomes not reported)
no primary outcomes not pre-specified
Other risk of bias issues
Are the statistical methods used to assess the primary outcomes appropriate to the data? (The statistical techniques used must be appropriate to the data and take into account usses suc as controlling for small sample size, clustering, rare outcomes, and multiple comparison.) yes partially no cannot determine
Power and sample size
Did the authors report conducting a power analysis or some other basis for determining the adequacy of study group sizes for the primary outcome(s) being abstracted? yes no N/A (primary outcomes statistically significant)

Quality – Observational Studies

Definition of "Low," "Moderate," and "High" risk of bias:

- A "Low risk of bias" study has the least bias, and results are considered valid. A good study has a clear description of the population, setting, interventions, and comparison groups; uses recruitment and eligibility criteria that minimizes selection bias; has a low attrition rate; and uses appropriate means to prevent bias, measure outcomes, and analyze and report results. These studies will meet the majority of items in each domain.
- A "Moderate risk of bias" study is susceptible to some bias but probably not enough to invalidate the results. The study may be missing information, making it difficult to assess limitations and potential problems. As the fair-quality category is broad, studies with this rating vary in their strengths and weaknesses. The results of some fair-quality studies are possibly valid, while others are probably valid. These studies will meet the majority of items in most but not all domains.
- A "High risk of bias" rating indicates significant bias that may invalidate the results. These studies have serious errors in design, analysis, or reporting; have large amounts of missing information; or have discrepancies in reporting. The results of a poor-quality study are at least as likely to reflect flaws in the study design as to indicate true differences between the compared interventions.

The Overall Quality Rating of this observational study is:
low risk of bias
moderate risk of bias
high risk of bias

Appendix E. List of Included Studies (KQs 1-3)

The Table below lists all studies included for KQs 1–3, broken down into primary and secondary publications.

Table. Included studies (KQs 1-3)

Primary Publication	Secondary Publications
KQs 1–3	,
Boult, 2008 ¹	Boult, 2011 ²
	Boyd, 2010 ³
	Leff, 2009 ⁴
	Marsteller, 2010 ⁵
	Wolff, 2009 ⁶
	Wolff, 2010 ⁷
Boyd, 2007 ⁸	Boyd, 2008 ⁹
	Sylvia, 2008 ¹⁰
Domino, 2009 ¹¹	None
Dorr, 2008 ¹²	Dorr, 2006 ¹³
Farmer, 2011 ¹⁴	None
Hebert, 2003 ¹⁵	None
Jaen, 2010 ¹⁶	Crabtree, 2010 ¹⁷
	Jaen, 2010 ¹⁸
	Miller, 2010 ¹⁹
	Nutting, 2009 ²⁰
	Nutting, 2010 ²¹
	Nutting, 2010 ²²
	Stewart, 2010 ²³
Martin, 2007 ²⁴	None
Reid, 2009 ²⁵	Coleman, 2010 ²⁶
700	Reid, 2010 ²⁷
Rubin, 1992 ²⁸	None
Schraeder, 2005 ²⁹	Peikes, 2009 ³⁰
Sommers, 2000 ³¹	None
Steele, 2010 ³²	Gilfillan, 2010 ³³
Taplin, 1998 ³⁴	None
Toseland, 1997 ³⁵	Toseland, 1996 ³⁶
Wise, 2006 ³⁷	None
Zuckerman, 2004 ³⁸	Minkovitz, 2003 ³⁹
	Minkovitz, 2007 ⁴⁰
KQs 2–3 only	
Chandler, 1997 ⁴¹	None
Farmer, 2005 ⁴²	None
Farris, 2004 ⁴³	None
Palfrey, 2004 ⁴⁴	Samuels, 2005 ⁴⁵
Peleg, 2008 ⁴⁶	None
Rankin, 2009 ⁴⁷	None
Schifalacqua, 2000 ⁴⁸	None
Treadwell, 2009 ⁴⁹	None
Vedel, 2009 ⁵⁰	None

References

- 1. Boult C, Reider L, Frey K, et al. Early effects of "Guided Care" on the quality of health care for multimorbid older persons: a cluster-randomized controlled trial. J Gerontol A Biol Sci Med Sci 2008;63(3):321-7. PMID: 18375882.
- 2. Boult C, Reider L, Leff B, et al. The effect of guided care teams on the use of health services: results from a cluster-randomized controlled trial. Arch Intern Med 2011;171(5):460-6. PMID: 21403043.
- 3. Boyd CM, Reider L, Frey K, et al. The effects of guided care on the perceived quality of health care for multi-morbid older persons: 18-month outcomes from a cluster-randomized controlled trial. J Gen Intern Med 2010;25(3):235-42. PMID: 20033622.
- 4. Leff B, Reider L, Frick KD, et al. Guided care and the cost of complex healthcare: a preliminary report. Am J Manag Care 2009;15(8):555-9. PMID: 19670959.
- 5. Marsteller JA, Hsu YJ, Reider L, et al. Physician satisfaction with chronic care processes: a cluster-randomized trial of guided care. Ann Fam Med 2010;8(4):308-15. PMID: 20644185.
- 6. Wolff JL, Rand-Giovannetti E, Palmer S, et al. Caregiving and chronic care: the guided care program for families and friends. J Gerontol A Biol Sci Med Sci 2009;64(7):785-91. PMID: 19349586.
- 7. Wolff JL, Giovannetti ER, Boyd CM, et al. Effects of guided care on family caregivers. Gerontologist 2010;50(4):459-70. PMID: 19710354.
- 8. Boyd CM, Boult C, Shadmi E, et al. Guided care for multimorbid older adults.
 Gerontologist 2007;47(5):697-704. PMID: 17989412.
- 9. Boyd CM, Shadmi E, Conwell LJ, et al. A pilot test of the effect of guided care on the quality of primary care experiences for multimorbid older adults. J Gen Intern Med 2008;23(5):536-42. PMID: 18266045.
- 10. Sylvia ML, Griswold M, Dunbar L, et al. Guided care: cost and utilization outcomes in a pilot study. Dis Manag 2008;11(1):29-36. PMID: 18279112.
- 11. Domino ME, Humble C, Lawrence WW, Jr., et al. Enhancing the medical homes model for children with asthma. Med Care 2009;47(11):1113-20. PMID: 19786921.

- 12. Dorr DA, Wilcox AB, Brunker CP, et al. The effect of technology-supported, multidisease care management on the mortality and hospitalization of seniors. J Am Geriatr Soc 2008;56(12):2195-202. PMID: 19093919.
- 13. Dorr DA, Wilcox A, Burns L, et al. Implementing a multidisease chronic care model in primary care using people and technology. Dis Manag 2006;9(1):1-15. PMID: 16466338.
- 14. Farmer JE, Clark MJ, Drewel EH, et al. Consultative care coordination through the medical home for CSHCN: a randomized controlled trial. Matern Child Health J 2011;Oct 15(7):1110-18. PMID: 20721612.
- 15. Hebert R, Durand PJ, Dubuc N, et al. Frail elderly patients. New model for integrated service delivery. Can Fam Physician 2003;49:992-7. PMID: 12943358.
- 16. Jaen CR, Crabtree BF, Palmer RF, et al. Methods for evaluating practice change toward a patient-centered medical home. Ann Fam Med 2010;8 Suppl 1:S9-20; S92. PMID: 20530398.
- 17. Crabtree BF, Nutting PA, Miller WL, et al. Summary of the National Demonstration Project and recommendations for the patient-centered medical home. Ann Fam Med 2010;8 Suppl 1:S80-90; S92. PMID: 20530397.
- 18. Jaen CR, Ferrer RL, Miller WL, et al. Patient outcomes at 26 months in the patient-centered medical home National Demonstration Project. Ann Fam Med 2010;8 Suppl 1:S57-67; S92. PMID: 20530395.
- 19. Miller WL, Crabtree BF, Nutting PA, et al. Primary care practice development: a relationship-centered approach. Ann Fam Med 2010;8 Suppl 1:S68-79; S92. PMID: 20530396.
- 20. Nutting PA, Miller WL, Crabtree BF, et al. Initial lessons from the first national demonstration project on practice transformation to a patient-centered medical home. Ann Fam Med 2009;7(3):254-60. PMID: 19433844.
- 21. Nutting PA, Crabtree BF, Miller WL, et al. Journey to the patient-centered medical home: a qualitative analysis of the experiences of practices in the National Demonstration Project. Ann Fam Med

- 2010;8 Suppl 1:S45-56; S92. PMID: 20530394.
- 22. Nutting PA, Crabtree BF, Stewart EE, et al. Effect of facilitation on practice outcomes in the National Demonstration Project model of the patient-centered medical home. Ann Fam Med 2010;8 Suppl 1:S33-44; S92. PMID: 20530393.
- 23. Stewart EE, Nutting PA, Crabtree BF, et al. Implementing the patient-centered medical home: observation and description of the national demonstration project. Ann Fam Med 2010;8 Suppl 1:S21-32; S92. PMID: 20530392.
- 24. Martin AB, Crawford S, Probst JC, et al. Medical homes for children with special health care needs: a program evaluation. J Health Care Poor Underserved 2007;18(4):916-30. PMID: 17982215.
- 25. Reid RJ, Fishman PA, Yu O, et al. Patient-centered medical home demonstration: a prospective, quasi-experimental, before and after evaluation. Am J Manag Care 2009;15(9):e71-87. PMID: 19728768.
- 26. Coleman K, Reid RJ, Johnson E, et al. Implications of reassigning patients for the medical home: a case study. Ann Fam Med 2010;8(6):493-8. PMID: 21060118.
- 27. Reid RJ, Coleman K, Johnson EA, et al. The group health medical home at year two: cost savings, higher patient satisfaction, and less burnout for providers. Health Aff (Millwood) 2010;29(5):835-43. PMID: 20439869.
- 28. Rubin CD, Sizemore MT, Loftis PA, et al. The effect of geriatric evaluation and management on Medicare reimbursement in a large public hospital: a randomized clinical trial. J Am Geriatr Soc 1992;40(10):989-95. PMID: 1401688.
- 29. Schraeder C, Dworak D, Stoll JF, et al. Managing elders with comorbidities. J Ambul Care Manage 2005;28(3):201-9. PMID: 15968212.
- 30. Peikes D, Chen A, Schore J, et al. Effects of care coordination on hospitalization, quality of care, and health care expenditures among Medicare beneficiaries: 15 randomized trials. JAMA 2009;301(6):603-18. PMID: 19211468.
- 31. Sommers LS, Marton KI, Barbaccia JC, et al. Physician, nurse, and social worker collaboration in primary care for chronically ill seniors. Arch Intern Med 2000;160(12):1825-33. PMID: 10871977.

- 32. Steele GD, Haynes JA, Davis DE, et al. How Geisinger's advanced medical home model argues the case for rapid-cycle innovation. Health Aff (Millwood) 2010;29(11):2047-53. PMID: 21041747.
- 33. Gilfillan RJ, Tomcavage J, Rosenthal MB, et al. Value and the medical home: effects of transformed primary care. Am J Manag Care 2010;16(8):607-14. PMID: 20712394.
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- 36. Toseland RW, O'Donnell JC, Engelhardt JB, et al. Outpatient geriatric evaluation and management. Results of a randomized trial. Med Care 1996;34(6):624-40. PMID: 8656727.
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- 38. Zuckerman B, Parker S, Kaplan-Sanoff M, et al. Healthy Steps: a case study of innovation in pediatric practice. Pediatrics 2004;114(3):820-6. PMID: 15342859.
- 39. Minkovitz CS, Hughart N, Strobino D, et al. A practice-based intervention to enhance quality of care in the first 3 years of life: the Healthy Steps for Young Children Program. JAMA 2003;290(23):3081-91. PMID: 14679271.
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- 41. Chandler C, Barriuso P, Rozenberg-Ben-Dror K, et al. Pharmacists on a primary care team at a Veterans Affairs medical center. Am J Health Syst Pharm 1997;54(11):1280-7. PMID: 9179348.
- 42. Farmer JE, Clark MJ, Sherman A, et al. Comprehensive primary care for children with special health care needs in rural areas. Pediatrics 2005;116(3):649-56. PMID: 16140704.
- 43. Farris KB, Cote I, Feeny D, et al. Enhancing primary care for complex patients.

 Demonstration project using

- multidisciplinary teams. Can Fam Physician 2004;50:998-1003. PMID: 15317232.
- 44. Palfrey JS, Sofis LA, Davidson EJ, et al. The Pediatric Alliance for Coordinated Care: evaluation of a medical home model. Pediatrics 2004;113(5 Suppl):1507-16. PMID: 15121919.
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- 47. Rankin KM, Cooper A, Sanabria K, et al. Illinois medical home project: pilot

- intervention and evaluation. Am J Med Qual 2009;24(4):302-9. PMID: 19515943.
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Appendix F. List of Excluded Studies (KQs 1-3)

All studies listed below were reviewed in their full-text version for possible inclusion for KQs 1–3 and were excluded. Following each reference, in italics, is the reason for exclusion. Reasons for exclusion signify only the usefulness of the articles for this review and are not intended as criticisms of the articles.

Adam P, Brandenburg DL, Bremer KL, et al. Effects of team care of frequent attenders on patients and physicians. Fam Syst Health 2010;28(3):247-57. PMID: 20939629. Exclude—does not meet PCMH definition

Adams EK, Bronstein JM, Florence CS. The impact of Medicaid primary care case management on office-based physician supply in Alabama and Georgia. Inquiry 2003;40(3):269-82. PMID: 14680259. Exclude—does not meet PCMH definition

Afifi AA, Morisky DE, Kominski GF, et al. Impact of disease management on health care utilization: evidence from the "Florida: A Healthy State (FAHS)" Medicaid Program. Prev Med 2007;44(6):547-53. PMID: 17350086. Exclude—does not meet PCMH definition

Ahmed S, Gogovor A, Kosseim M, et al. Advancing the chronic care road map: a contemporary overview. Healthc Q 2010;13(3):72-9. PMID: 20523157. *Exclude—not original data*

Aita V, McIlvain H, Backer E, et al. Patient-centered care and communication in primary care practice: what is involved? Patient Educ Couns 2005;58(3):296-304. PMID: 16122641. Exclude—does not meet PCMH definition

Alkema GE, Shannon GR, Wilber KH. Using interagency collaboration to serve older adults with chronic care needs: the Care Advocate Program. Fam Community Health 2003;26(3):221-9. PMID: 12829944. Exclude—does not meet PCMH definition

Al-Khaldi YM, Al-Sharif AI, Al-Jamal MN, et al. Difficulties faced when conducting primary health care programs in rural areas. Saudi Med J 2002;23(4):384-7. PMID: 11953760. Exclude—does not meet PCMH definition

Allen JK, Scott LB. Alternative models in the delivery of primary and secondary prevention programs. J Cardiovasc Nurs 2003;18(2):150-156. PMID: 2003092559. *Exclude—does not meet PCMH definition*

Alvarado R, Zepeda A, Rivero S, et al. Integrated maternal and infant health care in the postpartum

period in a poor neighborhood in Santiago, Chile. Stud Fam Plann 1999;30(2):133-41. PMID: 16617547. Exclude—does not meet PCMH definition

Amorim DG, Adam T, Amaral JJ, et al. Integrated Management of Childhood Illness: efficiency of primary health in Northeast Brazil. Rev Saude Publica 2008;42(2):183-90. PMID: 18372970. Exclude—does not meet PCMH definition

Andersen MD, Smereck GA, Hockman EM, et al. Nurses decrease barriers to health care by "hyperlinking" multiple-diagnosed women living with HIV/AIDS into care. J Assoc Nurses AIDS Care 1999;10(2):55-65. PMID: 10065410. Exclude—does not meet PCMH definition

Anderson LA, Persky NW, Whall AL, et al. Interdisciplinary team training in geriatrics: reaching out to small and medium-size communities. Gerontologist 1994;34(6):833-8. PMID: 7843614. Exclude—does not meet PCMH definition

Anderson RJ, Pickens S, Boumbulian PJ. Toward a new urban health model: moving beyond the safety net to save the safety net—resetting priorities for healthy communities. J Urban Health 1998;75(2):367-78. PMID: 9684248. Exclude—does not meet PCMH definition

Anfinson TJ, Bona JR. A health services perspective on delivery of psychiatric services in primary care including internal medicine. Med Clin North Am 2001;85(3):597-616. PMID: 11349475. Exclude—does not meet PCMH definition

Anker-Unnever L, Netting FE. Coordinated care partnership: case management with physician practices. J Case Manag 1995;4(1):3-8. PMID: 7795541. *Exclude—does not meet PCMH definition*

Anonymous. Integrated management of the sick child. Bull World Health Organ 1995;73(6):735-40. PMID: 8907767. Exclude—does not meet PCMH definition

Anonymous. Asthma DM effort slashes utilization, produces substantial ROI. Dis Manag Advis 2001;7(10):145-9. PMID: 11697023. *Exclude—does not meet PCMH definition*

Anonymous. HCFA demo sites offer a smorgasbord of managed care innovation. Dis Manag Advis 2001;7(4):52-7, 49. PMID: 11345904. *Exclude—not original data*

Anonymous. Role of the pediatrician in family-centered early intervention services. Pediatrics 2001;107(5):1155-7. PMID: 11331701. *Exclude—not original data*

Anonymous. Medicare demonstration project creeping to the starting line. Capitation Manag Rep 2004;11(10):109-11. PMID: 15566118. Exclude—does not meet PCMH definition

Anonymous. Blue Cross/Blue Shield promotes medical home demonstrations. Dis Manag Advis 2008;14(1):suppl 1-4, 1. PMID: 18290277. *Exclude—not original data*

Anonymous. Medical home payment structure offered. Report issued in preparation of CMS demonstration project. Dis Manag Advis 2008;14(7):1-2, 6. PMID: 18683595. *Exclude—not original data*

Anonymous. Patient-Centered Medical Homes. Health Aff (Millwood) 2010. . *Exclude—background (other)*

Anonymous. Peds program reduces ED visits by 55%. ED Manag 2010;22(6):66-7. PMID: 20535895. *Exclude—not original data*

Ansari Z, Barbetti T, Carson NJ, et al. The Victorian ambulatory care sensitive conditions study: rural and urban perspectives. Soz Praventivmed 2003;48(1):33-43. PMID: 12756887. Exclude—does not meet PCMH definition

Antonelli RC, Stille CJ, Antonelli DM. Care coordination for children and youth with special health care needs: a descriptive, multisite study of activities, personnel costs, and outcomes. Pediatrics 2008;122(1):e209-16. PMID: 18595966. *Exclude—does not meet PCMH definition*

Anumanrajadhon T, Rajchagool S, Nitisiri P, et al. The community care model of the Intercountry Centre for Oral Health at Chiangmai, Thailand. Int Dent J 1996;46(4):325-33. PMID: 9147120. Exclude—does not meet PCMH definition

Appleton PL, Boll V, Everett JM, et al. Beyond child development centres: care coordination for children with disabilities. Child Care Health Dev 1997;23(1):29-40. PMID: 9023029. Exclude—does not meet PCMH definition

Art B, De Roo L, De Maeseneer J. Towards unity for health utilising community-oriented primary care in education and practice. Educ Health (Abingdon) 2007;20(2):74. PMID: 18058692. Exclude—does not meet PCMH definition

Artz N, Whelan C, Feehan S. Caring for the adult with sickle cell disease: results of a multidisciplinary pilot program. J Natl Med Assoc 2010;102(11):1009-1016. PMID: 2010886437. Exclude—population and/or setting is not eligible

Asch SM, Baker DW, Keesey JW, et al. Does the collaborative model improve care for chronic heart failure? Med Care 2005;43(7):667-675. PMID: 2009095549. Exclude—population and/or setting is not eligible

Bachmann MO, Reading R, Husbands C, et al. What are children's trusts? Early findings from a national survey. Child Care Health Dev 2006;32(2):137-46. PMID: 16441848. Exclude—does not meet PCMH definition

Badger LW, Ackerson B, Buttell F, et al. The case for integration of social work psychosocial services into rural primary care practice. Health Soc Work 1997;22(1):20-9. PMID: 9021415. Exclude—does not meet PCMH definition

Bair-Merritt MH, Crowne SS, Burrell L, et al. Impact of intimate partner violence on children's well-child care and medical home. Pediatrics 2008;121(3):e473-80. PMID: 2009882610. Exclude—does not meet PCMH definition

Barnes-Boyd C, Fordham Norr K, Nacion KW. Promoting infant health through home visiting by a nurse-managed community worker team. Public Health Nurs 2001;18(4):225-35. PMID: 11468062. *Exclude—does not meet PCMH definition*

Barnett S, Niebuhr V, Baldwin C. Principles for developing interdisciplinary school-based primary care centers. J Sch Health 1998;68(3):99-105. PMID: 9608450. Exclude—does not meet PCMH definition

Bartels SJ, Miles KM, Dums AR. Improving the quality of care for older adults with mental disorders: the outcomes-based treatment planning system of the NH-Dartmouth Psychiatric Research Center. Policy Brief (Cent Home Care Policy Res) 2002(9):1-6. PMID: 14997912. Exclude—does not meet PCMH definition

Basilakis J, Lovell NH, Redmond SJ, et al. Design of a decision-support architecture for management of remotely monitored patients. IEEE Trans Inf Technol Biomed 2010;14(5):1216-26. PMID: 20615815. Exclude—does not meet PCMH definition

Battersby M, Harvey P, Mills PD, et al. SA HealthPlus: a controlled trial of a statewide

application of a generic model of chronic illness care. Milbank Q 2007;85(1):37-67. PMID: 17319806. *Exclude—does not meet PCMH definition*

Battersby M, McDonald P, Pearce R, et al. The changing attitudes of health professionals and consumers towards a coordinated care trial—SA HealthPlus. Aust Health Rev 2001;24(2):172-8. PMID: 11496460. Exclude—does not meet PCMH definition

Beland F, Bergman H, Lebel P, et al. Integrated services for frail elders (SIPA): a trial of a model for Canada. Can J Aging 2006;25(1):5-42. PMID: 16770746. Exclude—does not meet PCMH definition

Benfari RC. The multiple risk factor intervention trial (MRFIT). III. The model for intervention. Prev Med 1981;10(4):426-42. PMID: 7027237. Exclude—does not meet PCMH definition

Bennett P, Blackall M, Clapham M, et al. A multidisciplinary approach to the prevention of coronary heart disease. Health Educ J 1988;47(4):164-6. PMID: 10293251. Exclude—does not meet PCMH definition

Berman S, Armon C, Todd J. Impact of a decline in Colorado Medicaid managed care enrollment on access and quality of preventive primary care services. Pediatrics 2005;116(6):1474-9. PMID: 16322173. Exclude—does not meet PCMH definition

Berman S, Miller AC, Rosen C, et al. Assessment training and team functioning for treating children with disabilities. Arch Phys Med Rehabil 2000;81(5):628-33. PMID: 10807104. *Exclude—does not meet PCMH definition*

Bernabei R, Landi F, Gambassi G, et al. Randomised trial of impact of model of integrated care and case management for older people living in the community. BMJ 1998;316(7141):1348-51. PMID: 9563983. *Exclude—does not meet PCMH definition*

Bichel A, Erfle S, Wiebe V, et al. Improving patient access to medical services: preventing the patient from being lost in translation. Healthc Q 2009;13 Spec No:61-8. PMID: 20057252. Exclude—does not meet PCMH definition

Bird S, Noronha M, Sinnott H. An integrated care facilitation model improves quality of life and reduces use of hospital resources by patients with chronic obstructive pulmonary disease and chronic heart failure. Australian Journal of Primary Health 2010;16(4):326-333. PMID: 2010914470. Exclude—does not meet PCMH definition

Bird SR, Kurowski W, Dickman GK, et al. Integrated care facilitation for older patients with complex

health care needs reduces hospital demand. Aust Health Rev 2007;31(3):451-61; discussion 449-50. PMID: 17669069. *Exclude—does not meet PCMH definition*

Bithoney WG, McJunkin J, Michalek J, et al. The effect of a multidisciplinary team approach on weight gain in nonorganic failure-to-thrive children. J Dev Behav Pediatr 1991;12(4):254-8. PMID: 1939681. *Exclude—does not meet PCMH definition*

Bitton A, Martin C, Landon BE. A nationwide survey of patient centered medical home demonstration projects. J Gen Intern Med 2010;25(6):584-92. PMID: 20467907. Exclude—background (other)

Blomquist KB. Health, education, work, and independence of young adults with disabilities. Orthop Nurs 2006;25(3):168-187. PMID: 2009206863. *Exclude—does not meet PCMH definition*

Bodenheimer T, Wang MC, Rundall TG, et al. What are the facilitators and barriers in physician organizations' use of care management processes? Jt Comm J Qual Saf 2004;30(9):505-14. PMID: 15469128. Exclude—study design (not a longitudinal evaluative study and not relevant to KQ4)

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September 21, 2010. Exclude—background (other)

Appendix G. Characteristics of Included Studies (KQ 1, RCTs)

Table. Characteristics of included studies (KQ1, RCTs)

Study	Country; Organization	Explicitly PCMH?; Intervention Components	Practices (n)	Subjects	Outcomes Reported; Followup Period ^a	Study Quality
Farmer, 2011 ¹	U.S.A.	Yes	Intervention (32)	CSHCN - 100	Patient experiences	Fair
	Other insurance: Medicaid managed care plan	 Coordinated care Team Sustained partnership Comprehensive Enhanced access Structural changes 	Usual care (0) – crossover design	Practice staff - NR	6 months	
Jaen, 2010 ²⁻⁹	U.S.A.	Yes	Intervention (18)	Adults – 1983	Patient experiences Staff experiences	Fair
	Stand-alone primary care provider: Physician and hospital/health system owned	 Quality included Coordinated care Team Sustained partnership Comprehensive Enhanced access Structural changes 	Usual care (17)	Practice staff – NR	Process of care Clinical 26 months	
Boult, 2008 ¹⁰⁻¹⁶	U.S.A. HMO: Kaiser- Permanente Mid- Atlantic States; Integrated delivery system: Johns Hopkins Community Physicians; Stand- alone primary care provider: MedStar Physician Partners (multisite group practice)	No 1. Quality included 2. Coordinated care 3. Team 4. Sustained partnership 5. Comprehensive 6. Enhanced access 7. Structural changes	Intervention (7 PC care teams; 8 practices) Usual care (7 PC care teams; 8 practices)	Older adults with chronic illness – 904 Practice staff - 49	Patient experiences Staff experiences Economic 26 months	Good

Study	Country; Organization	Explicitly PCMH?; Intervention Components	Practices (n)	Subjects	Outcomes Reported; Followup Period ^a	Study Quality
Rubin, 1992 ¹⁷	U.S.A.	No	Intervention (1)	Older adults at high risk for	Economic	Fair
	Other: Parkland Memorial Hospital	Coordinated care Team Sustained partnership Comprehensive Structural changes	Usual care (NR)	rehospitalization – 200 Practice staff - NR	26 months	
Schraeder, 2005 ^{18,19}	U.S.A. Integrated delivery system: Carle Health System in Urbana, IL	No 1. Quality included 2. Coordinated care 3. Team 4. Sustained partnership 5. Comprehensive 6. Enhanced access 7. Structural changes	Intervention (12) Usual care (0)	Older adults with COPD, CAD, DM, CHF, or Afib – 2657 Practice staff – NR	Process of care Economic 2 years	Fair
Sommers, 2000 ²⁰	U.S.A. Stand-alone primary care provider	No 1. Quality included 2. Coordinated care 3. Team 4. Sustained partnership 5. Comprehensive 6. Enhanced access 7. Structural changes	Intervention (9) Usual care (9)	Older adults with chronic illness – 543 Practice staff – NR	Clinical Economic 2 years	Good
Toseland, 1997 ^{21,22}	U.S.A. Federal (U.S.) – Department of Veterans Affairs	No 1. Quality included 2. Coordinated care 3. Team 4. Sustained partnership 5. Comprehensive 6. Enhanced access 7. Structural changes	Intervention (1) Usual care (1)	Older adults with chronic illness – 160 Practice staff - NR	Patient experiences Process of care Clinical Economic 2 years	Good

Study	Country; Organization	Explicitly PCMH?; Intervention Components	Practices (n)	Subjects	Outcomes Reported; Followup Period ^a	Study Quality
Zuckerman, 2004 ²³⁻²⁵	U.S.A.	No	Intervention (15)	Young children – 3737	Patient experiences Process of care	Fair
	Other: multiple separate primary care practices across 14 states	 Quality included Coordinated care Team Sustained partnership Comprehensive Enhanced access Structural changes 	Usual care (15)	Practice staff - NR	5.5 years	

^aBased on longest followup period among abstracted outcomes.

Abbreviations: Afib = atrial fibrillation; CAD = coronary artery disease; CHF = congestive heart failure; CSHCN = children with special health care needs; COPD = chronic obstructive pulmonary disease; DM = diabetes mellitus; HMO = health maintenance organization; KQ = key question; NR = not reported; PC = primary care; PCMH = patient-centered medical home; RCT = randomized controlled trial

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Appendix H. Characteristics of Included Studies (KQ 1, Observational Studies)

Table. Characteristics of included studies (KQ1, observational studies)

Study	Country; Organization	Explicitly PCMH?; Intervention Components	Practices (n)	Subjects	Outcomes Reported; Followup Period ^a	Study Quality
Domino, 2009 ¹	U.S.A.	Yes	Intervention (NR)	Children with asthma – 207,439	Process of care Economic	Good
	Other: State-wide	1. Quality included	Usual care (NR)			
	medical home network	 Coordinated care Team Sustained partnership Comprehensive Enhanced access 		Practice staff – NR	Monthly estimates based on 4 years of data	
		7. Structural changes	1 (1)	0011011 400	<u> </u>	
Martin, 2007 ²	U.S.A.	Yes	Intervention (1)	CSHCN - 199	Economic	Fair
	Stand-alone primary care provider: Family practice	 Quality included Coordinated care Team Sustained partnership Comprehensive Enhanced access Structural changes 	Usual care (NR)	Practice staff - NR	2 years	
Reid, 2009 ³⁻⁵	U.S.A.	Yes	Intervention (1)	Adults – 3353	Patient experiences Staff experiences	Fair
	HMO: Group Health Cooperative of Puget Sound	 Quality included Coordinated care Team Sustained partnership Comprehensive Enhanced access Structural changes 	Usual care (19)	Practice staff – 82	Process of care Economic 2 years	

Study	Country; Organization	Explicitly PCMH?; Intervention Components	Practices (n)	Subjects	Outcomes Reported; Followup Period ^a	Study Quality
Steele, 2010 ^{6,7}	U.S.A.	Yes	Intervention (11)	Older adults with chronic illness –	Economic	Fair
	HMO: Geisinger	 Quality included Coordinated care Team Sustained partnership Comprehensive Enhanced access Structural changes 	Usual care (75)	15,310 Practice staff – NR	1 year	
Boyd, 2007 ⁸⁻¹⁰	U.S.A.	No	Intervention (1)	Older adults with chronic illness – 150	Patient experiences Economic	Fair
	Integrated delivery system Health plan for military retirees; Other: University affiliated community PC practices	 Quality included Coordinated care Team Sustained partnership Comprehensive Enhanced access Structural changes 	Usual care (1)	Practice staff – 2	6 months	
Dorr, 2008 ^{11,12}	U.S.A. Integrated delivery system: Intermountain Group Health	No 1. Quality included 2. Coordinated care 3. Team 4. Sustained partnership 5. Comprehensive 6. Enhanced access 7. Structural changes	Intervention (7) Usual care (6)	Older adults with chronic illness – 3432 Practice staff – NR	Clinical Economic 2 years	Good
Hebert, 2003 ¹³	Canada (Quebec) Non U.S. government: Canadian Healthcare System	No 1. Quality included 2. Coordinated care 3. Team 4. Sustained partnership 5. Comprehensive 6. Enhanced access 7. Structural changes	Intervention (1 region; # of clinics NR) Usual care (1 region; # of clinics NR)	Older adults with chronic illness – 482 Practice staff - NR	Clinical 2 years	Poor

Study	Country; Organization	Explicitly PCMH?; Intervention Components	Practices (n)	Subjects	Outcomes Reported; Followup Period ^a	Study Quality
Taplin, 1998 ¹⁴	U.S.A.	No	Intervention (1)	Adults – 398,000	Process of care	Fair
	HMO: Group Health Cooperative of Puget Sound	Quality included Coordinated care Team Sustained partnership Comprehensive Structural changes	Usual care (27)	Practice staff - NR	2 years	
Wise, 2006 ¹⁵	U.S.A.	No	Intervention (NR)	All ages; high utilizers – 54,479	Process of care Clinical	Fair
	Other insurance	Quality included	Usual care (NR)	,	Economic	
	organization: Partnership Health in partnership with University of Michigan's Medical Management Center	2. Coordinated care3. Team4. Sustained partnership5. Comprehensive		Practice staff - NR	1 year	

^aBased on longest followup period among abstracted outcomes.

Abbreviations: CSHCN = children with special health care needs; HMO = health maintenance organization; KQ = key question; NR = not reported; PC = primary care; PCMH = patient-centered medical home

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Appendix I. Characteristics of Included Studies (KQs 2–3 only)

Table. Characteristics of included studies (KQs 2-3 only)

Study	Country; Organization	Explicitly PCMH?; Intervention Components	Practices (n)	Subjects
Farmer, 2005 ¹	U.S.A.	Yes	Intervention (3)	CSHCN - 51
	Other: University- affiliated PC clinics	1. Quality included 2. Coordinated care 3. Team 4. Sustained partnership 5. Comprehensive 6. Enhanced access 7. Structural changes	Usual care (n/a)	Practice staff – NR
Palfrey, 2004 ^{2,3}	U.S.A.	Yes	Intervention (6)	CSHCN - 150
	Other: Pediatric Alliance for Coordinated Care	1. Quality included 2. Coordinated care 3. Team 4. Sustained partnership 5. Comprehensive 6. Enhanced access 7. Structural changes	Usual care (n/a)	Practice staff – NR
Rankin, 2009⁴	U.S.A.	Yes	Intervention (6)	CSHCN – 47
	Stand-alone PC provider	Quality included Coordinated care Sustained partnership Comprehensive Enhanced access	Usual care (n/a)	Practice staff – NR
Treadwell, 2009 ⁵	U.S.A.	Yes	Intervention (47)	Children with
	Stand-alone PC provider: 47 PC practices	1. Quality included 2. Coordinated care 3. Team 4. Sustained partnership 5. Comprehensive 6. Enhanced access 7. Structural changes	Usual care (NR)	asthma, DM, or ADHD – Practice Staff - NR
Chandler, 1997 ⁶	U.S.A.	No	Intervention (2)	Adults – 16,000
	Federal (U.S.) – Department of Veterans Affairs; Other: Northwestern Memorial Hospital	1. Coordinated care 2. Team 3. Sustained partnership 4. Comprehensive 5. Enhanced access 6. Structural changes	Usual care (n/a)	Practice staff – 3
Farris, 2004 ⁷	Canada	No	Intervention (6)	Adults with chronic
	Government- operated Health System outside U.S.; Private delivery, but government funded health care system	 Quality included Coordinated care Team Sustained partnership Comprehensive Enhanced access Structural changes 	Usual care (n/a)	illness – 199 Practice staff – NR

Study	Country;	Explicitly PCMH?;	Practices (n)	Subjects
	Organization	Intervention Components		
Peleg, 2008 ⁸	Israel	No	Intervention (1)	Older adults – 4620
	Non U.S. Government: Israel – PC clinic	 Quality included Coordinated care Team Sustained partnership Comprehensive Enhanced access Structural changes 	Usual care (n/a)	Practice staff – NR
Schifalacqua, 2000 ⁹	U.S.A.	No	Intervention (NR)	Older adults at medium to high
	Integrated delivery system: Aurora Health Care of WI	 Quality included Coordinated care Team Sustained partnership Comprehensive Enhanced access Structural changes 	Usual care (n/a)	health risk – NR Practice staff – NR
Vedel, 2009 ¹⁰	Paris, France	No	Intervention (NR)	Older adults with chronic illness –
	Non U.S. Government: French Health Care System	 Quality included Coordinated care Team Sustained partnership 	Usual care (2)	100 Practice staff - NR
		5. Comprehensive 6. Enhanced access 7. Structural changes		

Abbreviations: ADHD = attention deficit hyperactivity disorder; CSHCN = children with special health care needs; DM = diabetes mellitus; KQ = key question; n/a = not applicable; NR = not reported; PC = primary care; PCMH = patient-centered medical home; RCT = randomized controlled trial

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Appendix J. Characteristics of Included Studies (KQ 4)

Table. Characteristics of ongoing or planned studies evaluating PCMH

Study Title	Projected End Date	Funding Source	Health Care Delivery Organization	Location	Number of Patients ^a	Number of Clinics	Number of Providers
WellStar Health System/Humana Patient Centered Medical Home	NR	NR	Insurance organization : Humana	Georgia	720	2	12
Metcare of Florida/Humana Patient–Centered Medical Home	11/2010	NR	Insurance organization : Humana	Florida	NR	9	17
Queen City Physicians/Humana Patient— Centered Medical Home	12/2010	NR	Insurance organization : Humana	Ohio	5200	4	18
TriHealth Physician Practices/Humana Patient Centered Medical Home	5/2011	NR	Insurance organization : Humana	Ohio	1100	1	8
Using multi–payer payment reform to integrate medical home concepts into primary care practice in Washington State	1/2012	RWJ	NR	Washington	NR	NR	NR
Transforming Primary Care Practice In North Carolina	7/2012	AHRQ	NR	North Carolina	NR	12	NR
National Naval Medical Center Medical Home Program	NR	NR	Federal (U.S.): Department of Defense	Maryland	22,500	1	25
EmblemHealth Medical Home High Value Network Project ^b	1/2010	NR	Insurance organization : EmblemHealth	New York	12,000	33	159
Alabama Health Improvement Initiative Medical Home Pilot	9/2012	NR	Insurance organization : Blue Cross Blue Shield of Alabama	Alabama	NR	14	70
Maine Patient–Centered Medical Home Pilot	11/2012	NR	MaineCare(Medicaid); Maine Health Management Coalition Maine Quality Forum	Maine	30,000 to 50,000	26	221
Transformed Primary Care– Care By Design	6/2012	AHRQ	Multidisciplinary, University–owned primary care practices	Utah	NR	10	NR
Using health information technology and health information exchange to help	1/2012	RWJ	Multipayer	Ohio	30,000	11	40

Study Title	Projected End Date	Funding Source	Health Care Delivery Organization	Location	Number of Patients ^a	Number of Clinics	Number of Providers
physician practices improve patient care in Cincinnati							
Evaluating the Effects of EHRs, P4P and Medical Home Redesign in the Hudson Valley	12/2011	Weill Medical College; NY State Dept of Health; The Commonwealth Fund	Taconic Independent Practice Association	New York (Hudson Valley)	250,000	13	210
The Medical HOME Study ^b	1/2015	NIMH	Community Mental Health Centers	Georgia	300	NR	NR
Transforming Primary Care: Evaluating the Spread of Group Health's Medical Home	6/2012	AHRQ	Group model health maintenance organization (HMO): Group Health	Washington	NR	9 for qualitative outcomes; NR for other outcomes	NR
Understanding the Transformation Experiences of Small Practices with NCQA's Medical Home	7/2012	AHRQ	Multiple primary care clinics across the country	Multistate	NR	300	NR
Evaluating Statewide Transformation of Primary Care to Medical Homes	8/2012	AHRQ	All primary care in the state of Minnesota	Minnesota	2,000,000	180	1500
Evaluating the Role of the Medical Home Model in the Successful Management of Diabetes	1/2012	NIH (NIDDK)	NR	California	NR	NR	NR
UnitedHealth Group PCMH Demonstration Program (Arizona)	4/2012	United Health Insurance	Insurance organization: United Health	Arizona	14,000	7	25
Informing Sound Policy: Linking Medical Home Measures and Child Health Outcomes	9/2013	AHRQ	Indiana patient care network of pediatric practices	Indiana	NR	NR	NR
Primary Care Transformation in a NCQA Certified Patient Centered Medical Home	7/2011	AHRQ	Palo Alto Medical Foundation	California	NR	NR	NR
Multi–Method Evaluation of Physician Group Incentive Programs for PCMH Transformation	12/2011	AHRQ	Insurance organization : BCBS of Michigan's	Michigan	1,700,000	NR	7618
Implementation and Impact	9/2012	VA HSRD	Federal (U.S.):	Multistate	NR	> 200	NR

Study Title	Projected End Date	Funding Source	Health Care Delivery Organization	Location	Number of Patients ^a	Number of Clinics	Number of Providers
of VA Patient–Centered Medical Home			Department of Veterans Affairs				
What Makes Medical Homes Work: Lessons for Implementation and Spread	4/2012	The Commonwealth Fund	Group model health maintenance organization (HMO): Geisinger	Pennsylvania	50,000	26	110
Evaluation of The Commonwealth Fund's Safety–Net Medical Home Initiative, Phase 2	10/2013	The Commonwealth Fund	Network of safety–net clinics	Multistate	NR	68	NR
Evaluating a Medical Home Demonstration in Colorado and Ohio	6/2011	The Commonwealth Fund	Collaborative of five of the nation's leading insurers (unnamed)	Multistate	NR	NR	NR
Evaluating Models of Medical Home Payment Within the Pennsylvania Chronic Care Initiative	6/2013	The Commonwealth Fund	NR		NR	NR	NR
Rhode Island Chronic Care Sustainability Initiative	10/2011	NR	Unnamed commercial insurers and stand– alone primary care provider	Rhode Island	46,000	13	66
Blue Cross and Blue Shield Tennessee	NR	NR	Insurance organization: Blue Cross Blue Shield	Tennessee	25,000	31	NR
VA PACT Demonstration Lab Initiative	NR	VA HSR&D	Federal (U.S.): Department of Veterans Affairs	Multistate	NR	NR	NR

^aThe number of patients may mean the number of covered lives potentially eligible, or the number of patients specifically participating in the project.

Abbreviations: AHRQ = Agency for Healthcare Research and Quality; EHR = electronic health record; HMO = health maintenance organization; HSR&D = Health Services Research & Development Service; NCQA = National Committee for Quality Assurance; NIDDK = National Institute of Diabetes and Digestive and Kidney Diseases; NIH = National Institutes of Health; NIMH = National Institute of Mental Health; NR = not reported; P4P = pay for performance; PACT = Patient Aligned Care Team; PCMH = patient-centered medical home; RWJ = Robert Wood Johnson Foundation; VA = United States Department of Veterans Affairs

^bStudy planned as a randomized controlled trial.